CLAIMS

1. A pneumatic front suspension assembly (1) for industrial vehicle comprising:
   - a front axle (2) linked to a pair of side members (3, 4);
   - a pair of air bags (16) for adjusting the height of the axle (2) relative to the side members (3, 4),

   characterized in that it comprises, on each side:
   - a rigid arm (7), of which one extremity (11) is articulated relative to the side members (3) and of which the other extremity receives the axle (2) and the bottom part (17) of one of the air bags (16);
   - a pair of links (22, 26) mutually articulated about a pin (27) substantially parallel to the axle (2), one of these links, the upper link (26), being articulated relative to the side member (3), the other link, the lower link (22), being articulated relative to the rigid arm (7),

   and a basically U-shaped additional element (36) forming an anti-roll bar, and comprising:
   - a transverse rod (37) linked to the lower links (22) at their articulation points (25) with the rigid arms (7);
   - branches (38, 39) located on either side of the transverse rod (37), and linked to the lower links (22).

2. The suspension assembly as claimed in claim 1, characterized in that the rigid arm (7) is articulated to the side member (3) by its front extremity (11).

3. The suspension assembly as claimed in claim 1, characterized in that the branches (38, 39) of the anti-roll bar (36) are linked to the lower links (22) at their articulations (27) with the upper links (26).

4. The suspension assembly as claimed in claim 1, characterized in that it also has supplementary shock absorbers (35), articulated on the side members (3) and the rigid arms (7).

5. The suspension assembly as claimed in claim 1, characterized in that the rigid arm (7) presents at its rear extremity a broadened area (15) on which is mounted the bottom part (17) of the air bag (16).

6. The suspension assembly as claimed in claim 5, characterized in that the broadened area (15) is made integral with the upper face (20) of the axle (2).